

IN THE CLAIMS

*The status of the claims as presently amended is as follows:*

1. (*Currently Amended*) An array speaker system ~~constituted by arraying a plurality of speaker units, said array speaker system comprising:~~

a plurality of speaker units arranged in an array;

[[a]] means for inputting front-side channel signals for instructing reproduction of sound at a front side of a ~~listener~~ listening position and rear-side channel signals for instructing reproduction of sound at a rear side of the ~~listener~~ listening position;

[[a]] means for driving the speaker units ~~with weights using~~ according to weight coefficients ~~based on~~ provided by a Bessel function ~~with respect to~~ for only the front-side channel signals to generate a substantially spherical sound emission pattern at the front-side of the listening position; and

[[a]] means for driving the speaker units ~~with respect to~~ with the rear-side channel signals ~~in such a way that sound is~~ with a prescribed delay processing to produce a sound beam that is directed to ~~reflected at at least one sound reflection position such as a wall surface or a ceiling and is then applied with a prescribed delay value so as to form a~~ reflecting surface that reflects the sound beam reaching to the rear-side of the ~~listener~~ listening position.

2. (*Currently Amended*) An array speaker system according to claim 1, ~~which is constituted by wherein the plurality of speaker units form a first~~ left array speaker ~~arranged at a left side of a display and a second~~ right array speaker ~~arranged at a right side of the display.~~

3. (*Currently Amended*) An array speaker system according to claim 2, wherein:

the front-side channel signals ~~are formed using~~ include a left channel signal, a right channel signal, and a center channel signal, and the rear-side channel signals ~~are formed using~~ include a surround left channel signal and a surround right channel signal, and

wherein ~~in for~~ the first left array speaker ~~arranged at the left side of the display,~~ only the left channel signal and the center channel signal ~~are subjected to weighting using~~ driven according to the weight coefficients ~~based on~~ provided by the Bessel function, and the surround left channel signal is ~~subjected~~ driven to produce a left sound beam processing, and

wherein ~~in for~~ the second right array speaker ~~arranged at the right side of the display,~~ the right channel signal and the center channel signal ~~are subjected to weighting using~~ driven

according to the weight coefficients-based-on provided by the Bessel function, and the surround right channel signal is-subjected driven to produce a right sound beam-processing.

4. (*Currently Amended*) An array speaker system according to claim 1, wherein:

the plurality of speaker units are configured as a single array speaker-is arranged in front of the-listener listening position,-and

wherein in the array speaker, a left channel signal, a right channel signal, and a center channel signal, all of which form the front-side channel signals, are-subjected to weighting-using driven according to the weight coefficients-based-on provided by the Bessel function, and

a surround left channel signal and a surround right channel signal, both of which form the rear-side channel signals, are-subjected driven to produce the sound beam-processing.

5. (*Currently Amended*) An array speaker system-including comprising:

an array speaker-in-which having a plurality of speaker units-are arrayed in a matrix-manner, configuration; and

a drive circuitry coupled to the array speaker,

wherein the drive circuitry drives only a first audio signal for-instructing reproduction-of producing sound at a setup position of the array speaker-is-subjected to weighting-using-a according to weight coefficient-based-on provided by a Bessel function-so-as-to drive the-speaker units to generate a substantially spherical sound emission pattern at the setup position, and

wherein the drive circuitry drives a second audio signal for-instructing reproduction-of producing sound at a specific position other than the setup position of the array speaker-is-subjected to with a delay processing-so-as-to drive the-speaker units in-such-a-way-that to produce a sound beam-reaching-at the specific position-is-formed.

6. (*New*) The array speaker system according to claim 1, wherein at least one sound reflecting surface is a wall or ceiling.

7. (*New*) An array speaker system according to claim 2, wherein each of the left and right array speakers includes an  $m \times n$  array of speaker units, where  $m$  represents a row and  $n$  represents a column, with  $m$  being greater than  $n$  to confine the speaker units of each the left and right array speakers in a vertically elongated area.

8. (New) An array speaker system according to claim 7, wherein  $m$  is an integer of six or more and  $n$  is an integer of five or more.